AUTHORS:

Zegenesku F. Engineer, Belya, K.,

SOV/29-58-9-11/30

Engineer

TITLE:

From the Work of an Institute (Iz rabot odnogo instituta)

PERIODICAL:

Tekhnika molodezhi, 1958, Nr 9, pp 18 - 19 (USSR)

ABSTRACT:

1) An Instrument for Measuring Mechanical Stress: An instrument was developed in the RPR (Rumanian People's Republic) which permits to measure by optical methods the distribution, the direction and the magnitude of stress in models subjected to external stresses. This instrument was designed by the Engineers V.Goran and

E. Nikolau.

2) A "CAU-1" Simulator: The "CAU-1" is the first type of an alectronic simulator which was designed and built in the RPR. It permits to solve two problems simultaneously.

It was built by a collective of scientists, consisting

of S.Shekhter, Candidate of Technical Sciences, F.

Muntyanu, Engineer, F. Konstantinesku, Engineer, T. Torsan,

Engineer, and I. Endesh, Engineer.

Card 1/2

3) Aerodynamical Supersonic Tunnel: Two years ago the first

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964220003-4"

From the Work of an Institute

SOV/29-58-9-11/30

aerodynamic tunnel was constructed at the Institute of Applied Mechanics, AS RPh. A second, perfected tunnel was put into operation in 1958. This tunnel was designed by a collective. Among others, P. Ibanid, Candidate of Technical Sciences, and the Engineers E.Tsurkam and Ye.Moisey assisted in the work. There are 4 figures.

Card 2/2

507/4-58-11-28/31

AUTHORS:

Avetesyan, A., Engineer, and Zeger, K.

TITLE:

The Bubbling Layer (Kipyashchiy sloy)

PERIODICAL:

Znaniye - sila, Nr 11, 1958, p 36 (USSR)

ABSTRACT:

By several examples the authors explain the nature of the "bubbling layer" and the advantages it affords. The bubbling layer gives the possibility to utilize the "unyielding" solid material in the form of powder possessing many of the properties of liquid which makes it much easier to conduct large industrial processes. The transportation of liquid is easier, a flow of liquid can be better controlled and it is simpler to warm and to cool liquid. The authors explain the role which the bubbling layer plays in industry: in gas production, cracking of petroleum, catalytical cracking, calcination of sulfur pyrite in a bubbling layer, production of dyes, etc. The bubbling layer is only beginning to be brought into use in the chemical industry forcing out old labor-consuming processes and increasing manifold the productivity of labor. There are 3 drawings.

Card 1/1

AVETESYAN, A., inzh.; ZEGER, K.

Fluidized bed. Znan.sila 33 no.11:36 N '58. (MIRA 11:12)

(Fluidization)



ACC NR: AP7002570

(A, N)

SOURCE CODE: UR/0413/66/000/023/0062/0062

INVENTOR: Ivanov, K. I.; Zeger, K. Ye.; Chmovzh, V. Ye.; Polyakovskaya, V. I.; Kudryavova, G. V.

ORG: none

TITLE: Method of improving the antiwear and anticorrosion properties of heavy liquid fuels. Class 23, No. 189110 [announced by All-Union Heat Engineering Institute im. F. E. Dzerzhinskiy (Vsesoyuznyy teplotekhnicheskiy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 62

TOPIC TAGS: fuel additive, antiwear additive, anticorrosion additive

ABSTRACT:

An Author Certificate has been issued for a method of improving the antiwear and anticorrosion properties of heavy liquid fuels [unspecified], involving the introduction of additives based on compounds, soluble in water or organic media, of the type $\text{MeX}_1 + \text{Alx}_2$, where Ma is Ca, Mg, or Zn, and X1 and X2 are anions or functional groups, taken in quantities such that the Al/Me ratio be 0.05 to 0.95.

SUB CODE: 11/ SUBM DATE: 05Apr65/ ATD PRESS: 5112

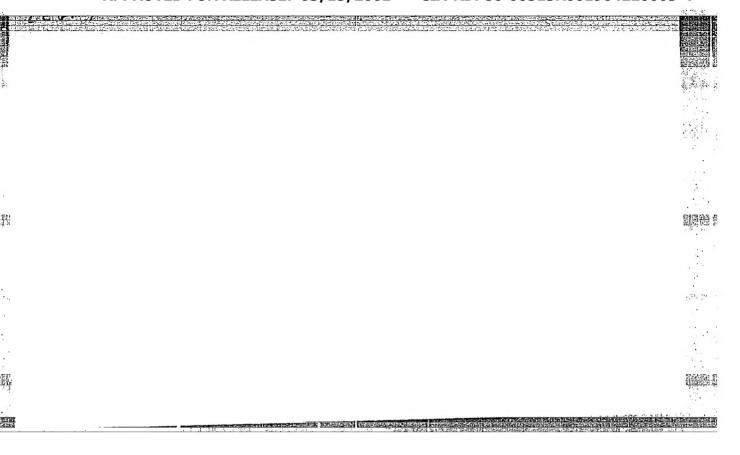
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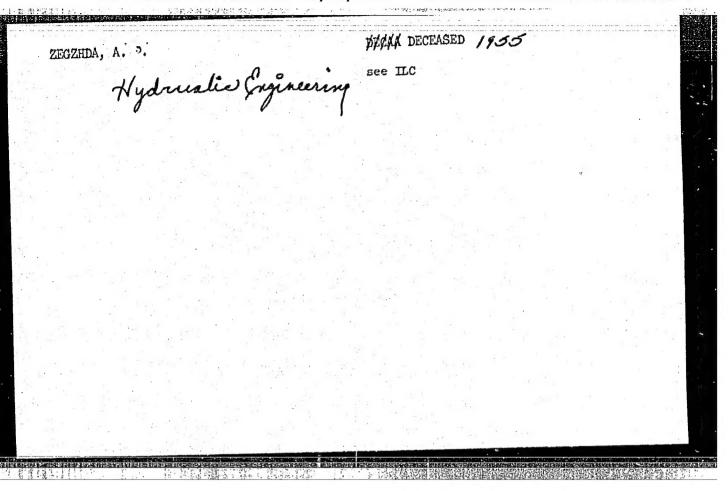
UDC: 546.27'261:620.197

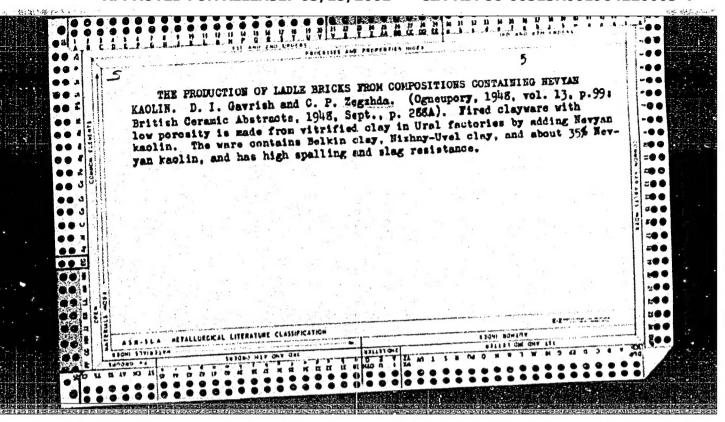
GORBANENKO, A.D.; ZEGER, K.Ye.; ZERNOVA, T.A.; IVANOV, K.I.;
LIPSHTEYN, R.A.; LUZHETSKIY, A.A.; POVOLOTSKIY, L.I.

Importance of ash content in boiler fuels for electric power plants. Standartizatsiia 28 no.1:24-25 Ja '64.

(MIRA 17:1)

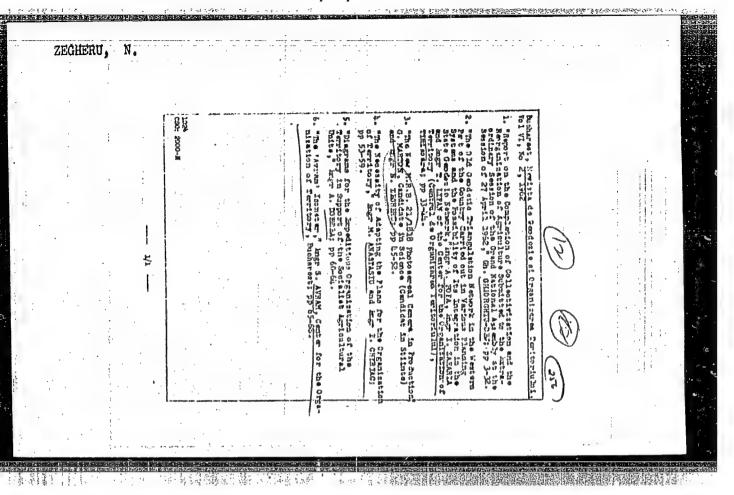






MARTON, G., candidat in stiinte; ZEGHERU, N., ing.

Automatization of the process of stereophotogrammetric use of the coordimeter. Rev geodezie 7 no.1:15-25 '63.



SURNAME, Given Names

2 E6 HERO, MICOLAE

Country: Rumania

Academic Degrees: [not given]

Affiliation: General Directorate of Geotopography and of the Territory's Organization of the Ministry of Agriculture (Directia Generala Geotopografica si a Organizarii Teritoriului din Ministerul

Agriculturii).

Source: Bucharest, Revista de Geodezie si Organizarea Teritoriului, No 3, 1961, pp 41-46.

Data: "Concerning the Preparation of a Fundamental Topographic Plan of the Country."

Co-author:
NICOARA, Nicolae,
General Directorate of Geotopography and of the Territory's
Organization of the Ministry of Agriculture.

GPO 981643

CYGAN, Z.; KUSMIERSKI, S.; DROZDZ, M.; ZEGLEN, S.; ZAK, T.

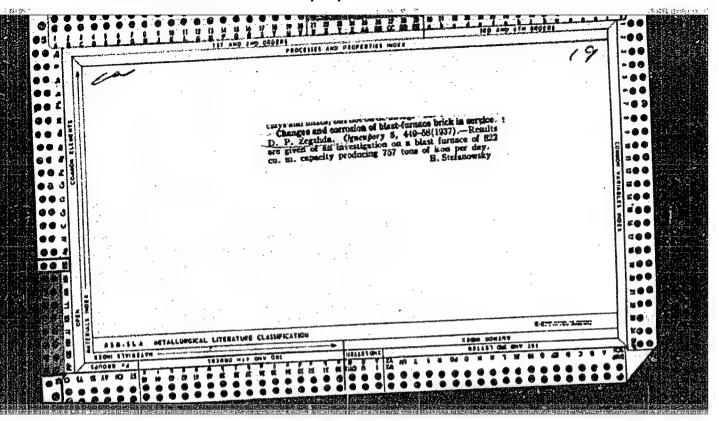
Assessent of the clinical usefulness of the determination of serum mucoproteins in surgical diseases. Wiad. 1ek. 18 no.20: 1603-1608 15 0 '65.

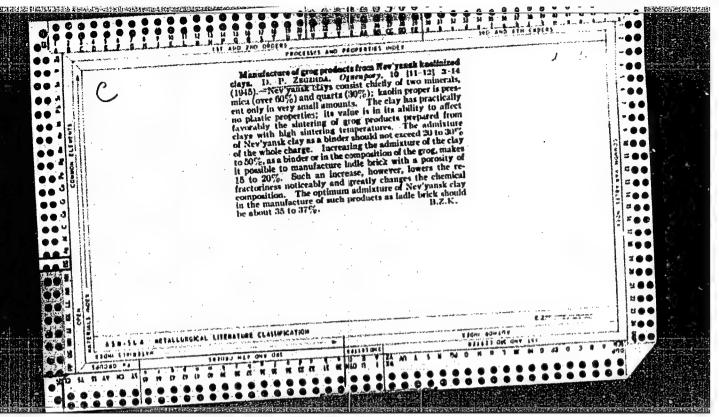
1. Z Zakladu Chemii Fizjologicznej (Kierownik: prof. dr. S. Jozkiewicz) i z II Kliniki Chir. Slaskiej AM w Zabrzu (Kierownik: prof. dr. J. Gasinski).

ZEGORENKOV, I. P.

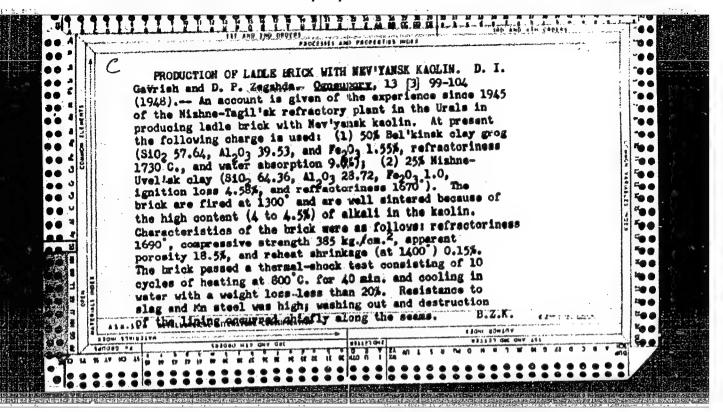
"Ways to Increase Labor Productivity during the Cleaning and Chopping of Castings."

report presented at the Leningrad Regional Conference on Progressive Foundry Practice, Loningrad, 8-12 Dec 1959.

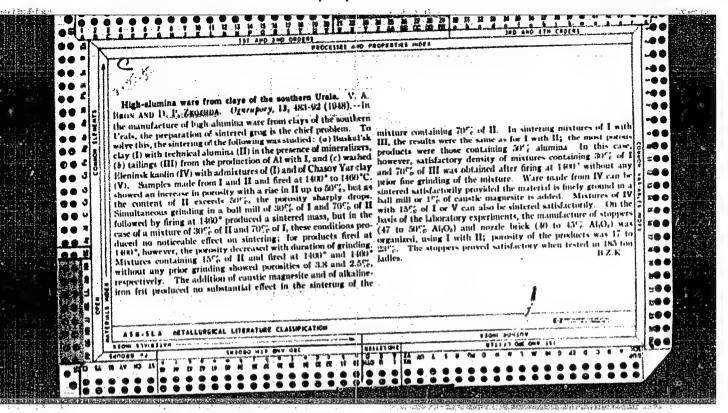


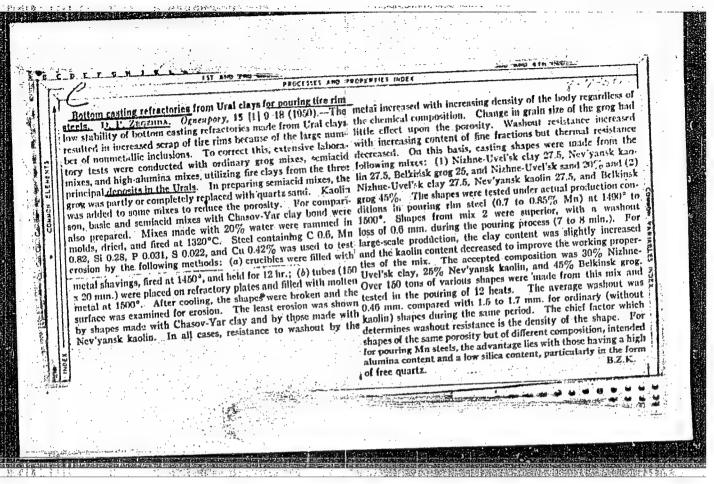


PA 10/47193 ZEGZHDA, D. P. Nov 48" USSR/Minerals Clays, Aluminum - Containing Coramics "The Use of Southern Ural Clay for the Manufacture of High-Alumina-Content Parts, " V. A. Bron, Cand Tech Sci, D. P. Zegzhda, 9 pp "Ogneupory" No 11 Reports experiments. Discusses effect of mixture composition on agglomeration of parts, effect of pasts treatment, effect of mineralizers, pastes containing aluminum by-products, and agglomeration of pastes, made from elutriated Yeleninsk kaolin. Includes 12 tables. 18/49193

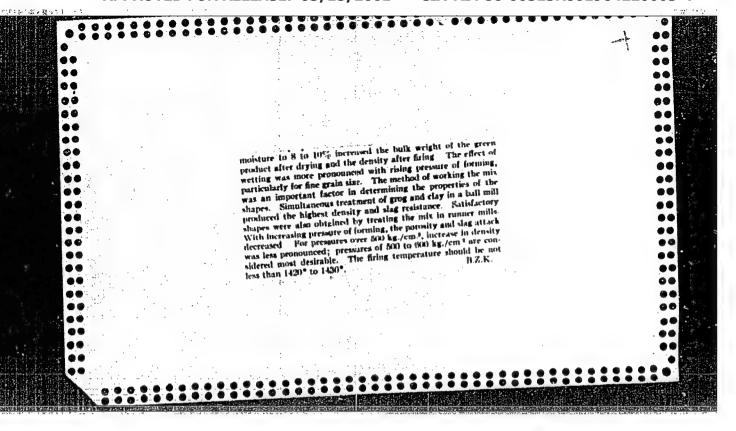


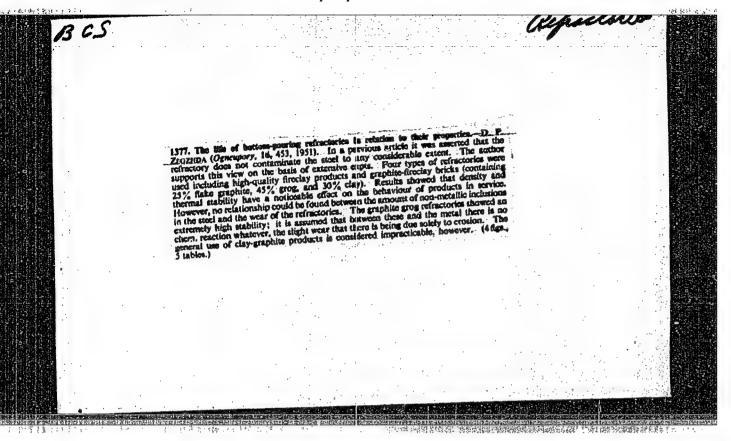
High-alumina ware from clays of the southern Urals. V. A. Bron and D. P. Zegzhda. Ogrempory, 13, 183-92 (1948). In the manufacture of high-alumina ware from clays of the southern Urals, the preparation of sintered grog is the chief problem. To solve this, the sintering of the following was studied: (a) Buskul'sk clay (I) with technical alumina (II) in the presence of mineralizers, (b) tailings (III) from the production of Al with I, and (c) washed Eleminsk kaolin (IV) with admixtures of (I) and of Chasov Yar clay (V). Samples made from I and II and fired at 1400° to 1460° C. showed an increase in porosity with a rise in II up to 50%, but as the content of II exceeds 50%, the porosity sharply drops. Simultaneous grinding in a ball mill of 30% of I and 70% of II followed by firing at 1460° produced a sintered mass, but in the case of a mixture of 30% of II and 70% of I, these conditions produced no noticeable effect on sintering; for products fired at 11000, however, the porosity decreased with duration of grinding. Mixtures containing 15% of II and fired at 1h00° and 1h60° without any prior grinding showed porosities of 3.8 and 2.5%, respectively. The addition of caustic magnesite and of alkaline-iron frit produced no substantial effect in the sintering of the mixture containing 70% of II. In sintering mixtures of I with III, the results were the same as for I with II; the most porous products were those containing 50% alumina. In this case, however, satisfactory density of mixtures containing 30% of I and 70% of III was obtained after firing at 14000 without any prior fine grinding of the mixture. Ware made from IV can be sintered satisfactorily provided the material is finely

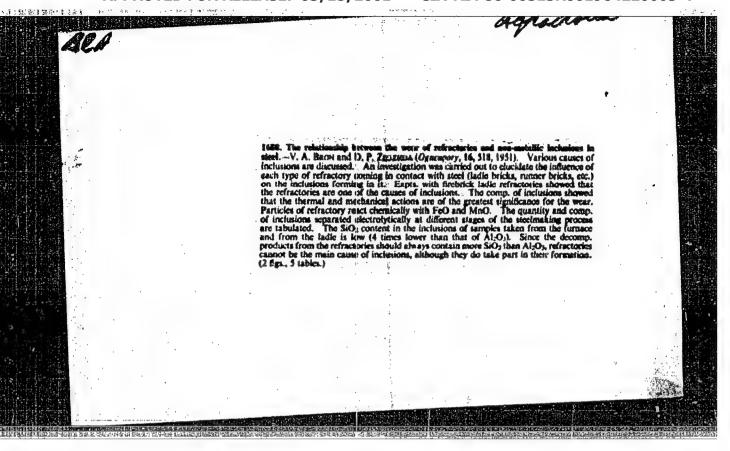


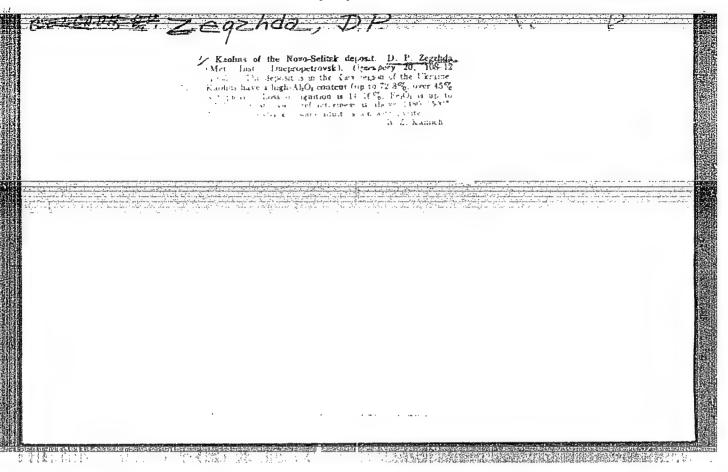












ZEGZHDA, D.P.; ARZUMANOV, M.A.; LEVITAS, Ye.G.; FROLOVA, A.I.;
DUDAVSKIY, I.Ye.

Properties of grog obtained by burning certain clays in rotary kilns. Ognoupory 31 no.1:5-10 '66.

(MIRA 19:1)

1. Dnepropetrovskiy metallurgicheskiy institut (for Zegzhda, Arzumanov, Levitas, Frolova). 2. Zaporozhskiy ogneupornyy zavod (for Dudavskiy).

32777 S/137/61/000/012/002/149 A006/A101

15.2630

AUTHORS:

Zegzhda, D.P., Radchenko, I.I.

TITLE

Investigation of heat conductivity and thermal expansion of alumo-

silicate masses

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 4, abstract 12B18 ("Tr. Nauchn. tr. Dnepropetrovak. metallurg. in-t", 1958,

no. 36, 95 - 104)

TEXT; The method of non-stationary heat process was employed to determine heat conductivity of roasted specimens, 40 mm in diameter, of four compositions: Al₂O₃, Al₂O₃ 2SiO₂, Al₂O₃ SiO₂ and Al₂O₃ 4SiO₂, in pure state and with admixtures of 2% MgO or TiO₂. The nature of changes in the heat conductivity with changing volumetric weight was determined not from the ratio of the main exide components but from the presence and nature of mineralizers, which accelerate the formation of mullite and thus change the structure of the body and its properties. In pure masses, heat conductivity increases gradually with higher temperatures; in masses with admixtures it increases rapidly up to 500 - 600°C, passing through a maximum, and then decreases. This is explained by the high

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32777 S/137/61/000/012/002/149 A006/A101

Investigation of heat conductivity ...

degree of the crystalline phase development. The highest thermal expansion determined by VNIIO differential dilatometer, was observed in pure masses; mineralizers MgO, ${\rm TiO_2}$ and ${\rm K_2O}$ reduce thermal expansion.

X

N. Molchanov

[Abstracter's note: Complete translation]

Card 2/2

32778

S/137/61/000/012/003/149 A006/A101

15.2610

AUTHORS:

Zegzhda, D.P., Klimkovich, N.S.

TITLE:

The dependence of elastic properties of alumo-silicate masses on

the nature of the depleting agent and bond

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 4, abstract

12B20 ("Sb, nauchn, tr. Dnepropetr, metallurg, in-t", 1959, no. 38,

101 - 111)

TEXT: It was established that changes in the chemical and mineralogical composition of the depleting agent and the bond caused changes in the nature of the dependence between the modulus of elasticity and the grain composition because 1) in the case of masses with quartzite, changes in the modulus of elasticity do practically not depend on temperature (such a phenomenon was not observed when investigating refractory masses); 2) at all roasting temperatures, the modulus of elasticity increased to maximum values at a content of fractions of < 0.088 mm equal to 20% (for refractory masses the maximum value of the modulus of elasticity was shifted to 30 - 40% content of fine fraction depending on the roasting temperature); 3) the degree of variation in the values of the modulus

Card 1/2

32778

The dependence of elastic properties ...

8/137/61/000/012/003/149 A006/A101

of elasticity with a changing content of fine fractions is considerably higher for masses with quartzite than for refractory masses, when changes in the modulus of elasticity proceed smoothly. The investigation has shown that the presence or absence of various admixtures and differences in the structure of the initial raw material may exert a decisive effect on the formation of elastic properties of alumo-silicate articles at equal technological parameters of manufacture.

X

V. Oparysheva

[Abstracter's note: Complete translation]

Card 2/2

ZEGZHDA, D.P.

Destruction process of aluminosilicate products under the effect of thermal shocks. Izv.vys.uchab.zav.; chern.met. no.4:169-170 '60. (MIRA 13:4)

1. Dnepropetrovskiy metallurgicheskiy institut. (Aluminum silicates -- Thermal properties)

 VOLSHTEYN, L.M.; ZEGZHDA, G.D.

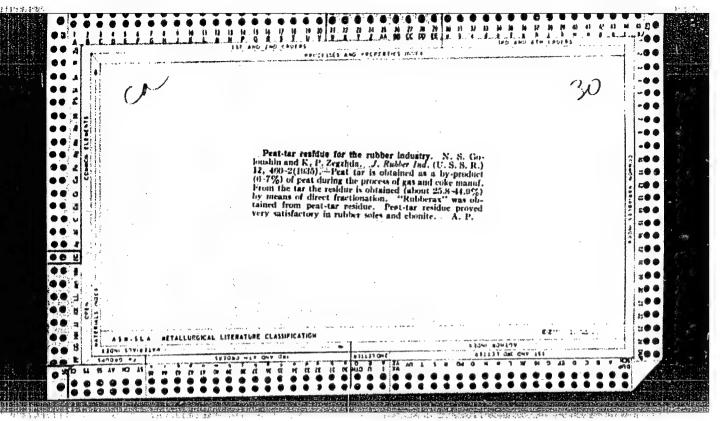
Complex compounds of bivalent platinum with valine. Zhur.neorg.khim. 7 no.7:1525-1529 Jl *62. (MIRA 16.3)

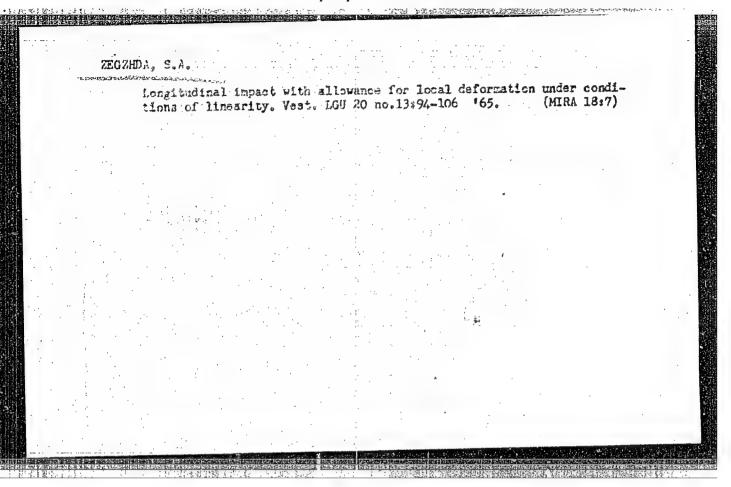
1. Dnepropetrovskiy khimiko-tekhnicheskiy institut imeni F.E.Dzerzhinskogo. (Platinum compounds) (Valine)

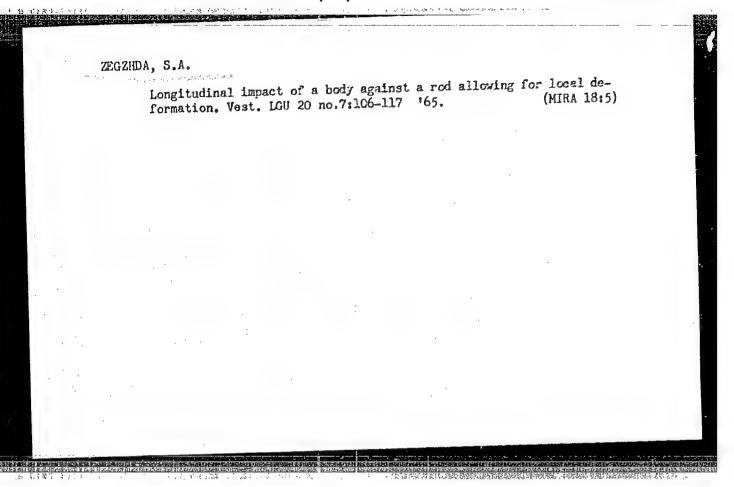
VOLSHTEYN, L.M.; ZEGZHDA, G.D.

Mutual transformation of isomers of platimum divaline. Zhur.neorg.khim. 7 no.10:2315-2319 0 62. (MIRA 15:10)

1. Dnepropertovskiy khimiko-tekhnologicheskiy institut imeni F.E.Dzerzhinskogo.
(Platinum compounds) (Valine) (Isomerization)







L 1969-66 ENT(d)/ENT(m)/EMP(w) EM

ACCESSION NR: AP5019931

UR/0043/65/000/003/0094/0106

AUTHOR: Zegzhda, S. A.

TITLE: On longitudinal impact with local contortion in a linear formulation

SOURCE: Leningrad. Universitet. Vestnik. Seriya matematiki, mekhaniki i astronomii, no. 3, 1965, 94-106

TOPIC TAGS: stress analysis, differential equation, approximation method

ABSTRACT: Central longitudinal impact of a body on a rod is studied with simultaneous attention paid to local deformation and the propagation of deformation waves through the rod. The case of a semi-infinite rod is considered in greatest detail. It is shown that in this case and under certain assumptions the solution of the problem in dimensionless variables depends only on a single parameter, which --if less than unity--becomes Saint-Venant's solution and--if greater than unity--Hertz's solution. The relation of the impact parameters with the above parameter for the case of local deformation is given in tabular form. A linear relation is substituted for the nonlinear relation between the force of contact and the local contortion, and the error thus arising from this linearization is shown graphi-

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cally. The solution of the gi- addition, an approximate formu- sion of a body with a rigidly spring loaded at one end. "In G. N. Bukharinov for his valua Orig. art. has: 49 formulas,	lation is given for the pr fixed rod, which reduces to conclusion, the author ex ble suggestions and attent	oblem involving the other same problem presses his gratit	for a ude to
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S/043/63/000/001/010/011 D218/D308

AUTHOR:

Zegzhda, S. A.

TITLE:

Oscillations of an asymmetric body suspended

from elastic supports

PERIODICAL:

Leningrad. Universitet. Vestnik. Seriya matematiki, mekhaniki i astronomii, no. 1,

1963, 145-148

TEXT: The author discusses the oscillations of an elastically suspended body with one plane of symmetry for a circular motion of the base. It is assumed that the center of gravity lies on the line connecting the points of attachment of the suspensions to the body, and that the tension in the supports is large compared with the weight of the body. Assuming that the oscillapared with the weight of the body. Assuming that the oscillapared with the small, a general solution of the Lagrange equation is tions are small, a general solution of the frequencies of the derived, and formulas are obtained for the frequencies of the natural oscillations. These frequencies were checked experimentatural oscillations.

Card 1/2

/ Oscillations of an...

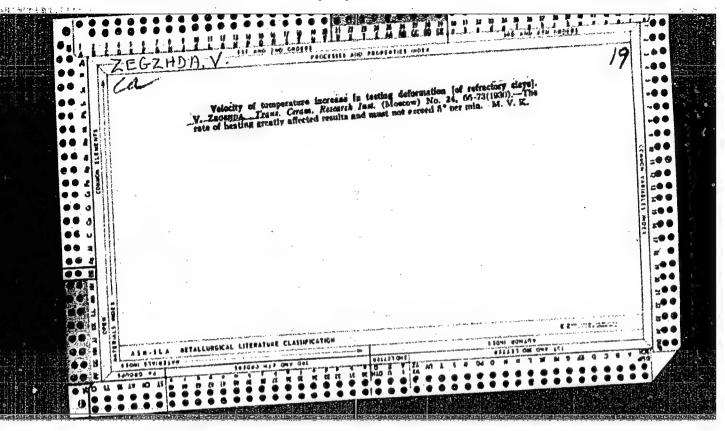
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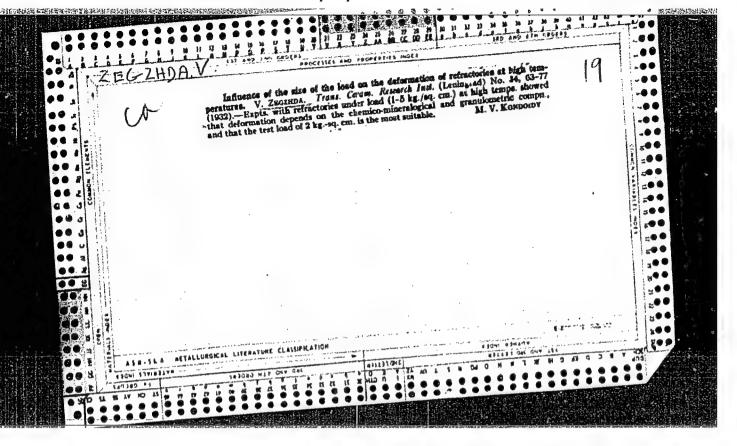
tally and the agreement between the experimental and theoretical values was 8% on the average.

SUBMITTED:

April 24, 1962

Card 2/2





ZEGZHDA, V. P., Cand Tech Sci -- (diss) "Graphite-content refractories, their properties, and application." Leningrad, 1960. 19 pp;
ories, their properties, and application." Leningrad, 1960. 19 pp;
ories, their properties, and application." Leningrad, 1960. 19 pp;
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15 (2) AUTHORS:

Zegzhda, V. P., Kablukovskiy, A. F.,

SOV/131-59-9-7/12

Laktionov, V. S., Skorokhod, S. D.

TITLE

The Use of Graphite Chamotte Bricks in Steel Casting Ladles and

Gutters for Steel Melting Furnaces

PERIODICAL:

Ogneupory, 1959, Nr 9, pp 419-423 (USSR)

ABSTRACT:

The Vsesoyuznyy institut ogneuporor (All-Union Institute for Refractories) has carried out experiments with graphite-chamotte bricks, containing 15% and 25% of graphite, in 80 t ladles of the Izhora Works. In the "Elektrostal!" works experiments were made with 20 t casting ladlas with graphite-chamotte bricks of the Borovichi Kombinat for refractories. The properties of the bricks are shown in table 1. The wear of the test bricks, burnt at high temperatures, is indicated in table 2. In casting steels of the types 10-45, EShKh15, 20G, 57KhN34, 15KhFA, 20Kh, EU8, and U10A at the "Elektrostal!" works the graphite chamotte lining of the ladle has not exercised any influence on the carbon content of the metal. The composition of the mortar used may be

seen from the table 3. Figures 1 and 2 (photos) show the condition of the joints, made from mortar Nr 1 and Nr 2 after

Card 1/3

The Use of Graphite Chamctte Bricks in Steel Casting Ladles and Gutters for Steel Melting Furnaces sov/131-59-9-7/12

10 melts. Data concerning the stability of the test ladles are given by table 4, and table 5 contains data concerning the wear of the lining of the ladle. The installation of a thermocouple for measuring the metal temperature in the ladle is represented in figure 3, and the respective measuring results are compiled in table 6. Figure 4 shows the manner in which the side walls of the casting gutters are subject to wear. Conclusions: When casting dead, bubble-free, steel with a carbon content of more than 0.5% the graphite-chamotte lining of the ladle does virtually not exercise any influence upon the carbon content of the metal. It must still be found out whether this lining can be used when casting steel with a lower carbon content. In order to prevent the destruction of the joints, the use of a special mortar is recommended. Owing to their higher heat-conductivity it is not advantageous to amploy graphite-chamotte bricks for lining the bottom of the ladles. A further paper in this field will deal with the changes in the shape and the dimensions of these products, as well as the reduction of their heat conductivity. The nacessity is stressed of of an industrial production of the graphite-chamotte bricks.

Card 2/3

507/131-59-9-7/12 The Use of Graphite Chamotte Bricks in Steel Casting Ladles and Gutters for Steel Melting Furnaces

There are 4 figures, 6 tables, and 7 references, 5 of which

are Soviet.

Veesoyuznyy institut ogneuporov/(All-Union Institute for Refractories). Zavod "Elektrostal" ("Elektrostal" Works)

Card 3/3

ASSOCIATION:

15 (2) AUTHOR:

Zegzhda, V. P.

507/131-59-7-8/14

TITLE:

Production Experiments and Operation Tests of Graphite Firebricks (Opyty izgotovleniya i ispytaniye v sluzhbe grafito-

shamotnogo kirpicha)

PERIODICAL:

Ogneupory, 1959, Nr 7, pp 325-329 (USSR)

ABSTRACT:

The Vsesoyuznyy institut ogneuporov (All-Union Institute of Refractories) tested the influence of small admixtures of flaky graphite on the properties of fire-clay masses. Masses with an admixture of from 5 to 30 % of crucible graphite of the ZT brand were investigated. Latnenskiy clay of the first type was used as a binder, and fire clay of this type was used for leaning. The results of the laboratory tests are indicated in table 1, and the corrosion by slag is shown in figure 1. To clarify the possibility of using refractory graphite fire-clay products in steel ladles, 3 sample lots of bricks were made and tested. The first lot was made in the "Krasnyy tigel" Works from layers with 15-25 % graphite (Table 2), and tested in the ladles of the Izhorskiy Works. At a content of 25 % graphite, the ladle bricks endured 15 melts, which exceeded the stability of firebricks 12 to 3 times. At the Borovichi Kombinat of

Card 1/3

sov/131-59-7-8/14

Production Experiments and Operation Tests of Graphite Firebricks

Refractories, the second lot of graphite-fire-clay ladle bricks of the brands KP-7, KP-8 and KP-9 was manufactured. Chasov-Yar half-acid clay of the Ch2PK brand with low shrinkage was used as a binder. This lot was made with 15 % foundry graphite of the KLZ-1 brand. In experiments, the metal in the ladle started intensely boiling which caused an intense destruction of the seams of the lining (Fig 2). Among other things, it was assumed that the ladle was insufficiently dried, which was, however, doubted by the editors of the periodical (Footnote 1), and it was recommended to check this assertion. At the Borovichi Kombinat, the third experimental lot of bricks with a content of from 20 to 25 % graphite of the ZT and KLZ-1 brands was prepared. A mixture of clay types of the LIPS and Chl brands was used as a binder. The mass composition, the properties of the products, and the experimental results of the sample lots of bricks are indicated in table 2. A mortar of sand, clay, graphite, and for o-silicon was ascertained by experiments. The state of the seams of the ladle lining with this mortar after 10 melts is shown in figure 3. The wear of the lining and of the mortar proved to be low. The experiments

Card 2/3

 Production Experiments and Operation Tests of Graphite SOV/131-59-7-8/14

in this field must, however, be continued. It was found that the channels of the Martin and electric melting furnaces made of these bricks last 4-8 times longer than the usual ones. There are 3 figures, 2 tables, and 8 references, 4 of which are Soviet.

ASSOCIATION:

Vsesoyuznyy institut ogneuporov (All-Union Institute of Refractories)

Card 3/3

GORDEYEV, N.P.; ZEGZHDA, V.P.; KONAREV, M.U.; SHALKOV, K.A.; KOHOVALOV, Ya.A.

Using refractory materials containing graphite for transferring liquid metals by an electromagnetic method. Ogneupory 26 no.6:292 161.

1. Vsesoyuznyy institut ogneuporov (for Gordeyev, Zegzhda).
2. Borovichskiy kombinat ogneuporov (for Konarev, Shalkov, Konovalov).

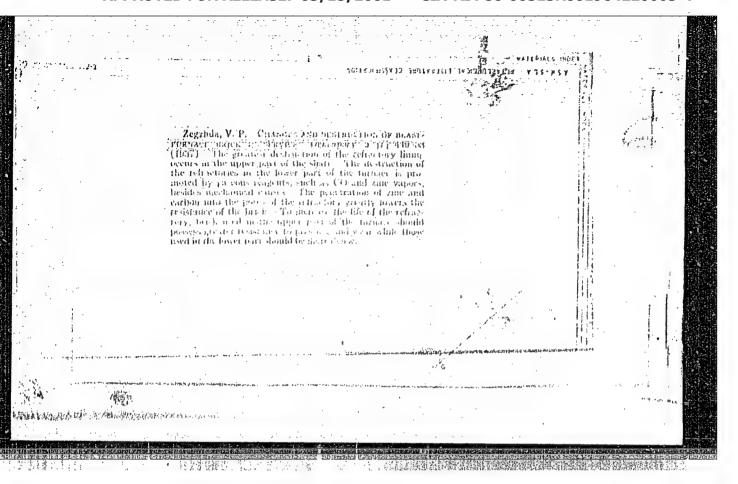
(Refractory materials)

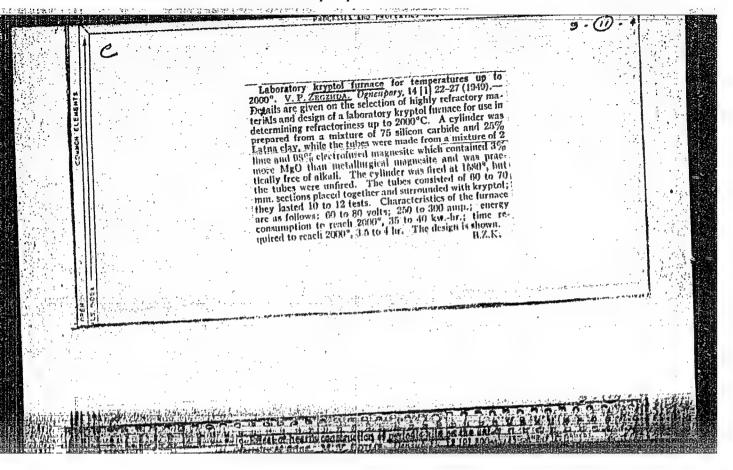
(Smelting)

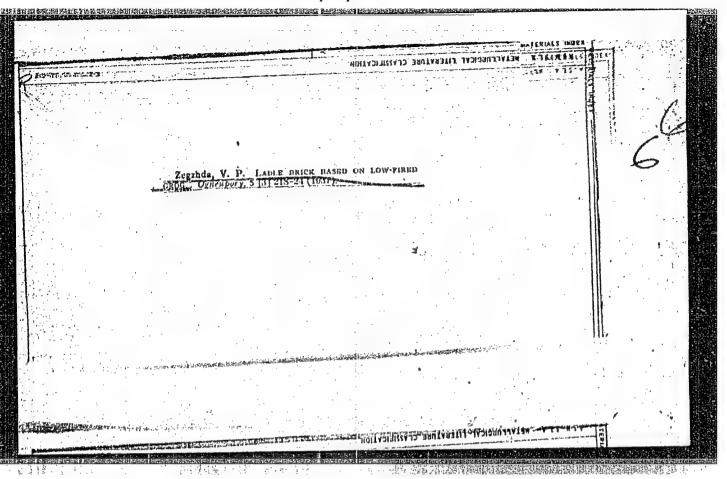
ZEGZHDA, V.F., insh.

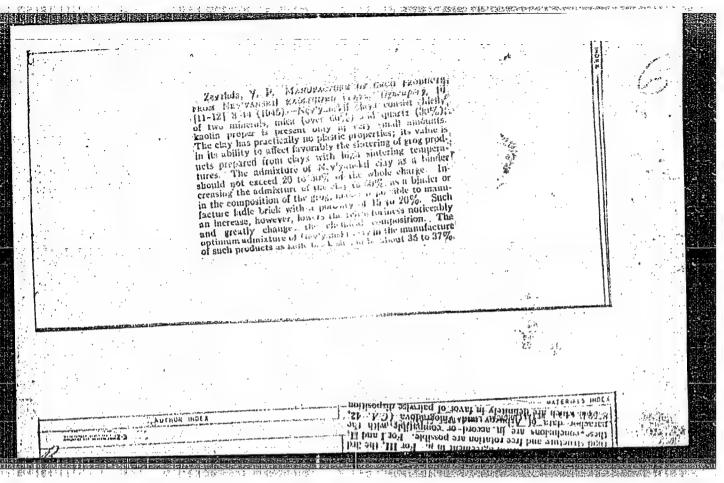
Graphite molds for bimetallic rods. Biul. TSNIICHM no.6:38-43 158.

(Molding (Founding)) (MIRA 11:5)

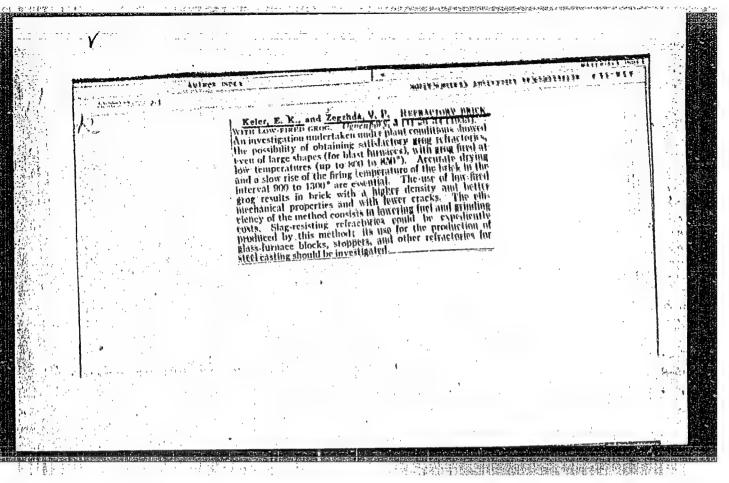




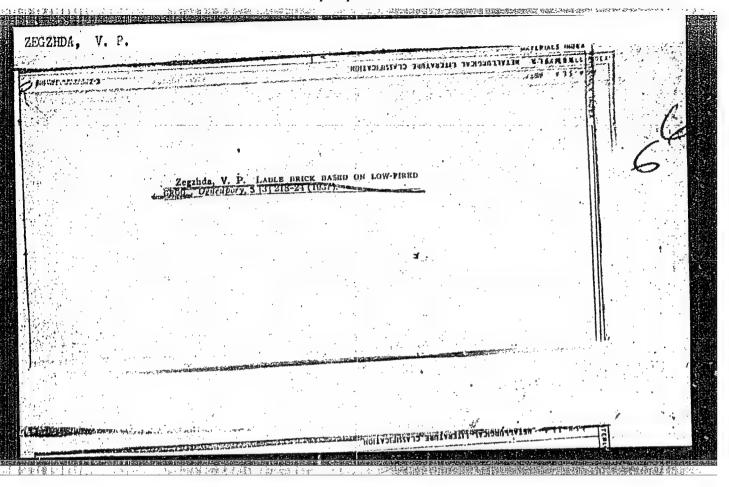


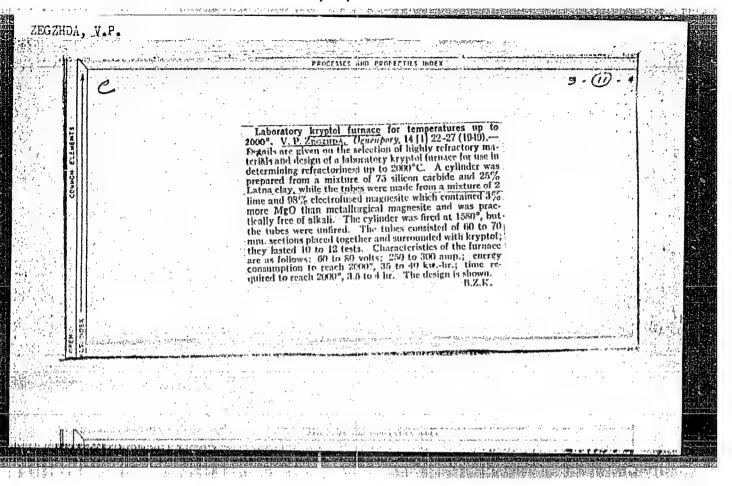


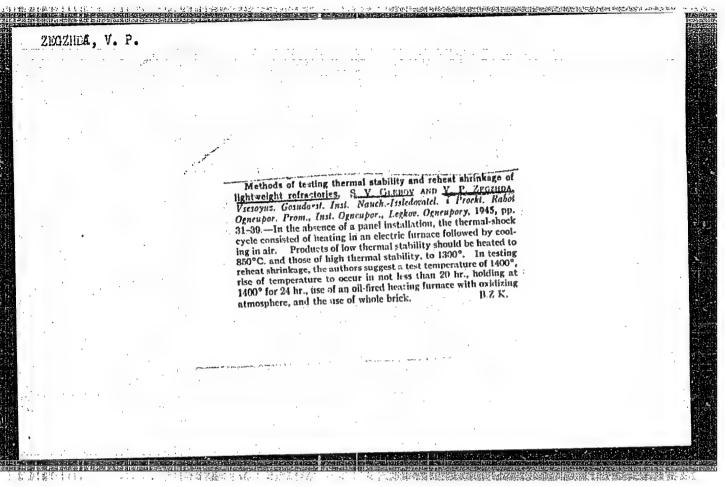
Keller, E. I., and Zegzhda, V. P. MANUFACTURE OF REFRACTORIES FROM NOW-FIRED CROC. Trudy Vsesoyuz. Inst. Ogneuporov, No. 19, 41-98 (19h0).--As a result of many experiments, the production of refractories from low-fired grog was developed. The advantages of this type of refractory are (1) low cost of manufacture, (2) greater production yield of the grinding equipment, (3) the use of coarser granulometric grog composition, and (4) easier drying. Disadvantages are (1) higher moisture content in the worked mix and (2) greater shrinkage of the product. The finished products show denser bodies and a high mechanical resistance. Moreover, they are more slag resistant and have a low gas permeability.

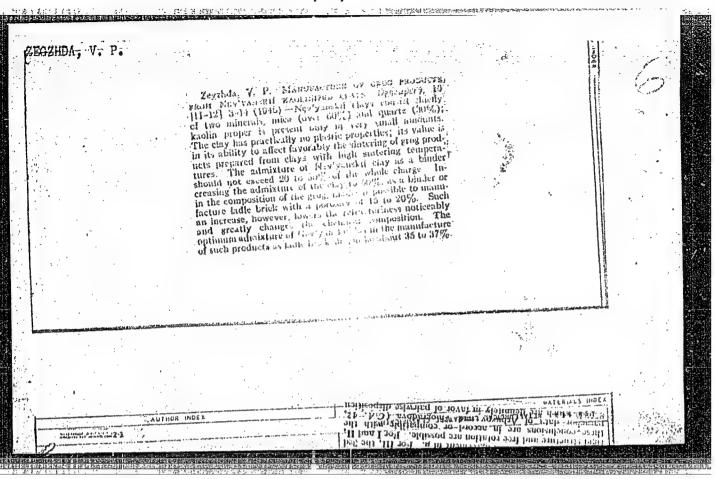


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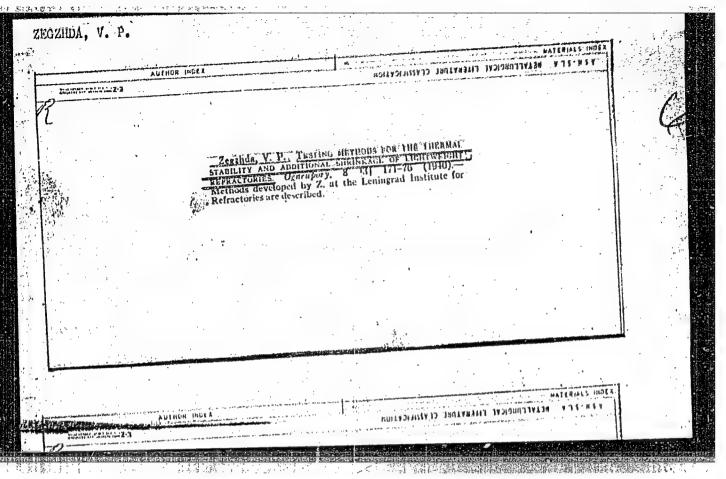


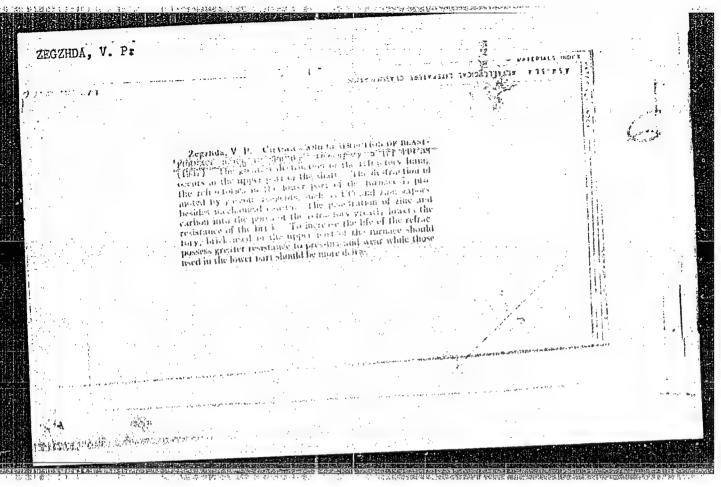


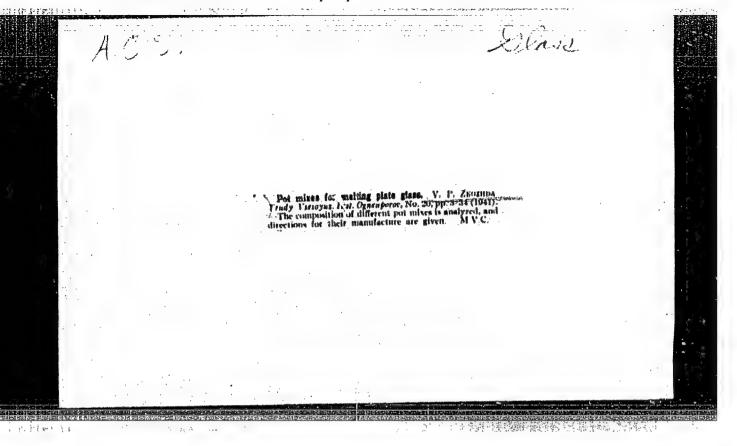


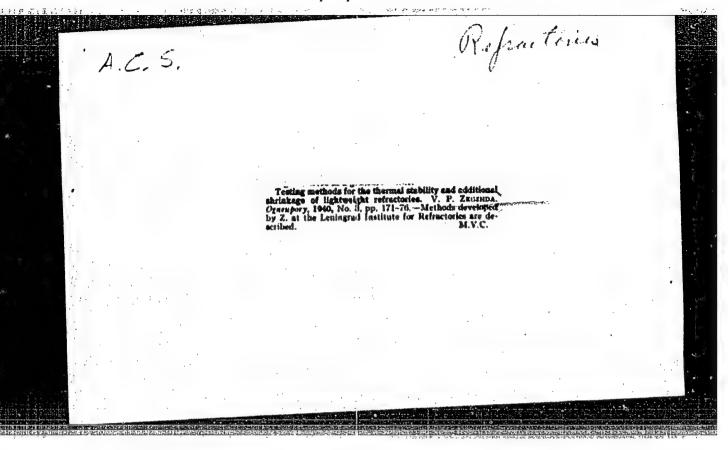


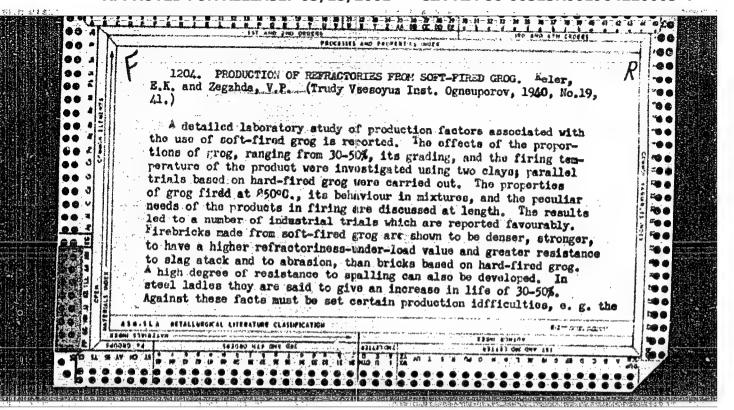
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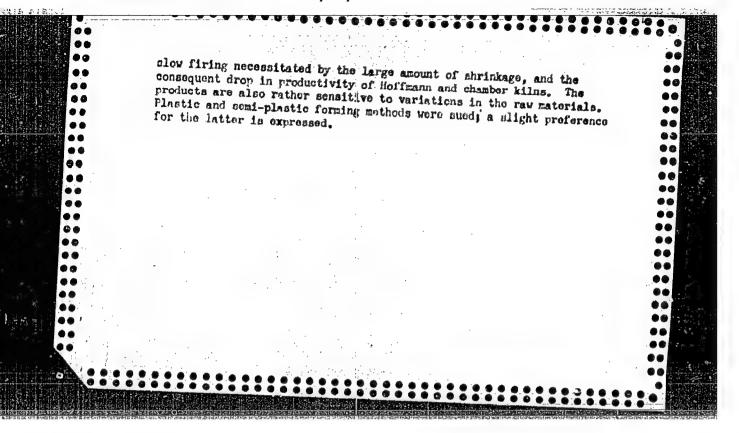


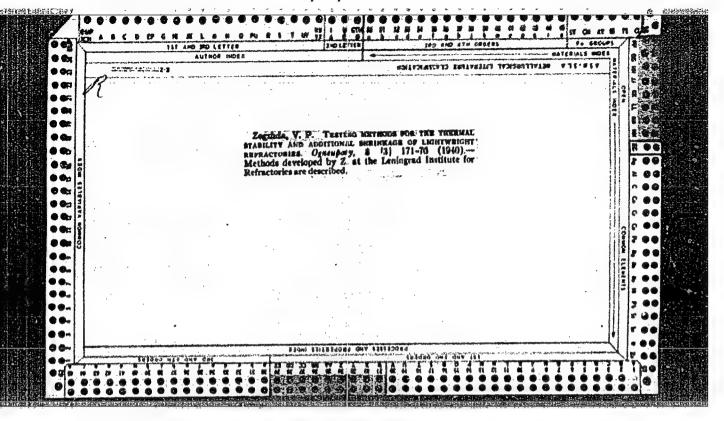


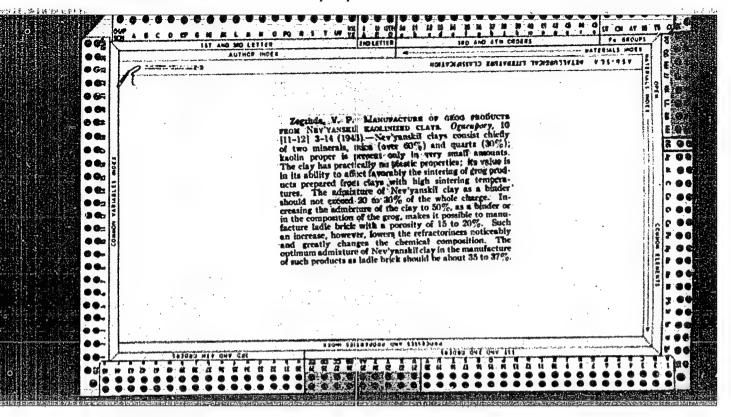


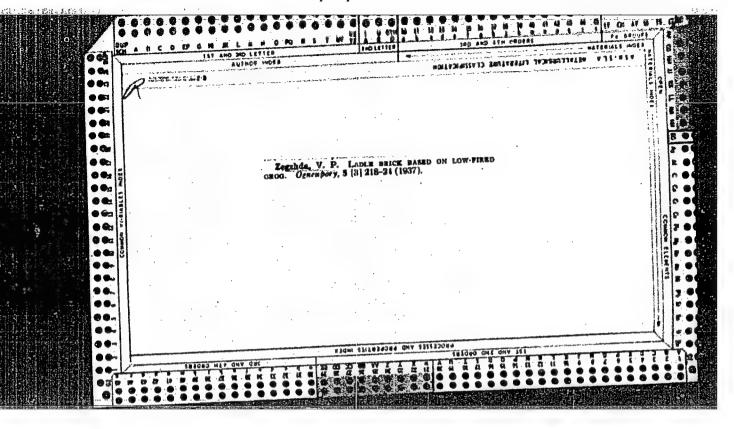


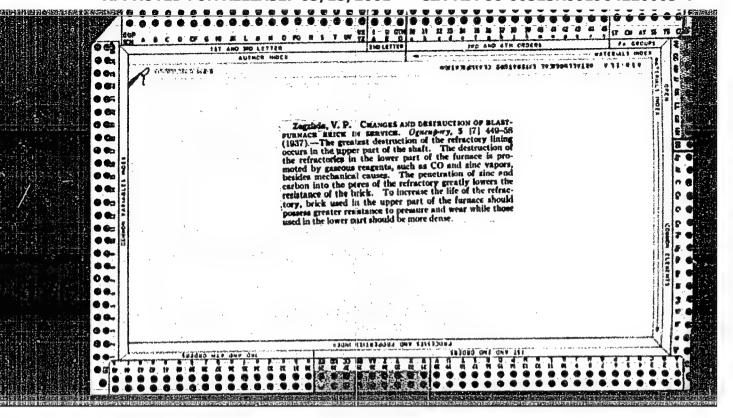


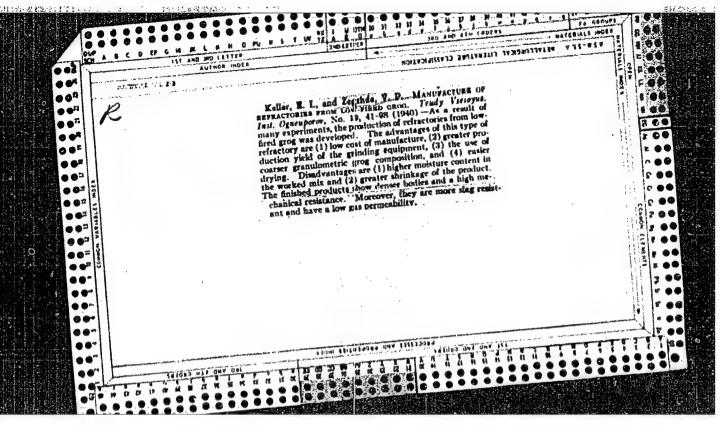


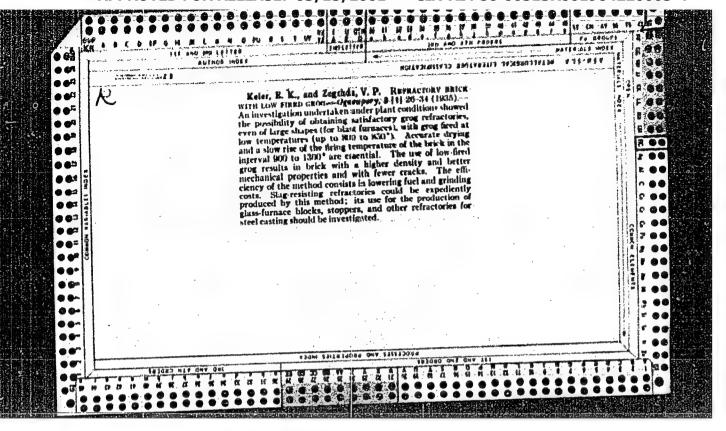


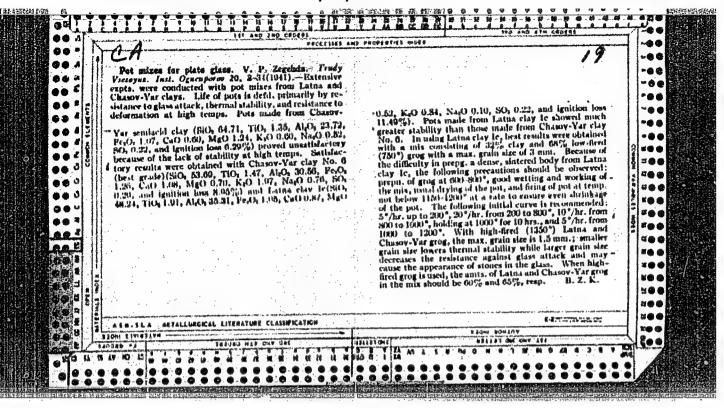


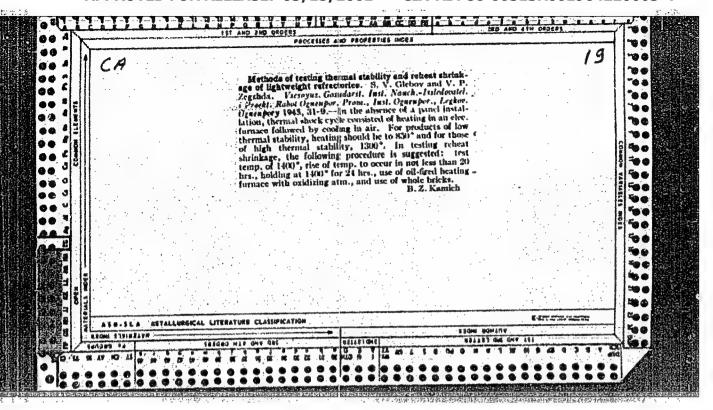


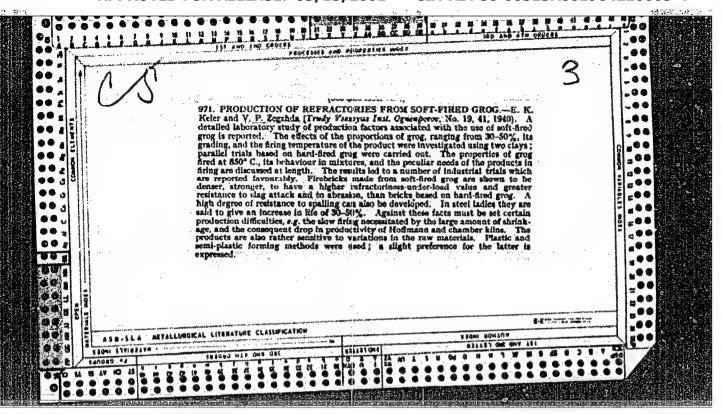


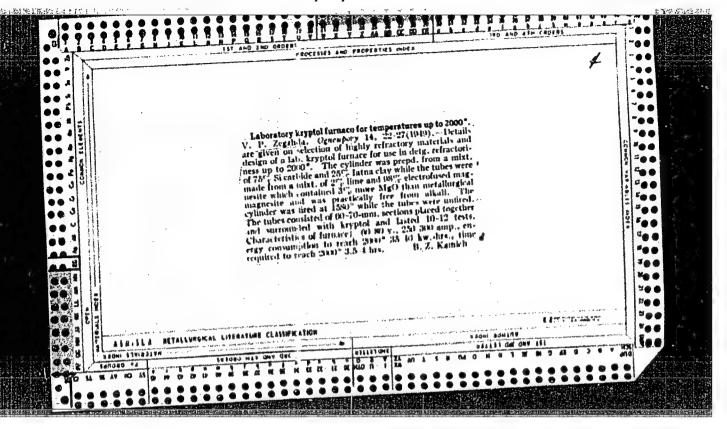


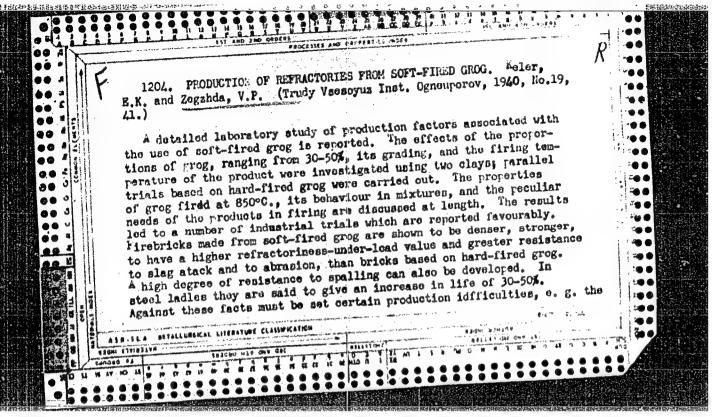


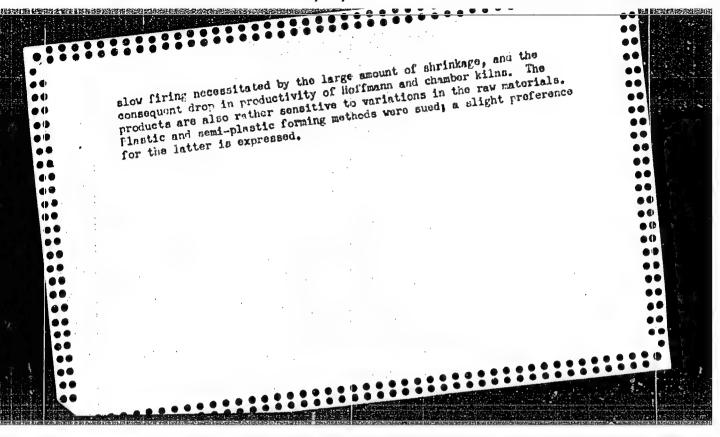


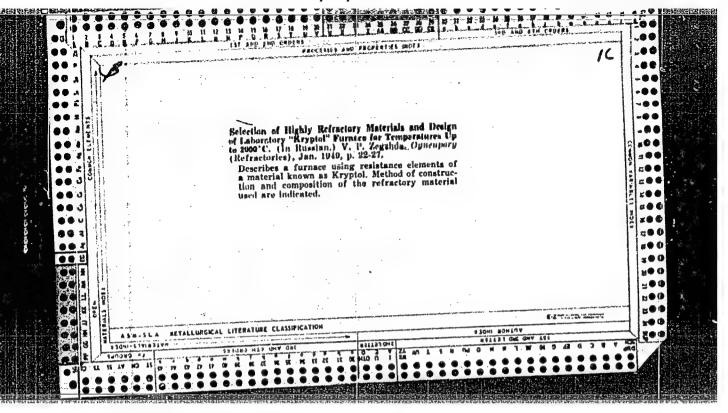


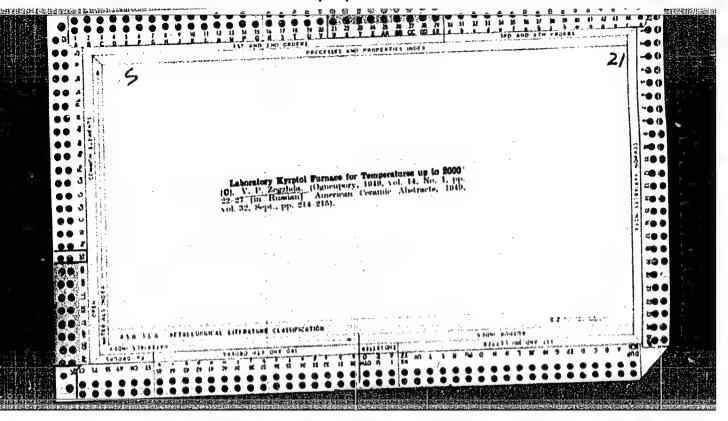


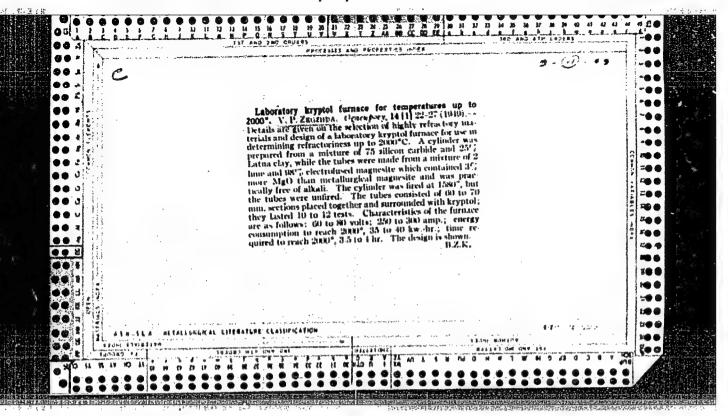


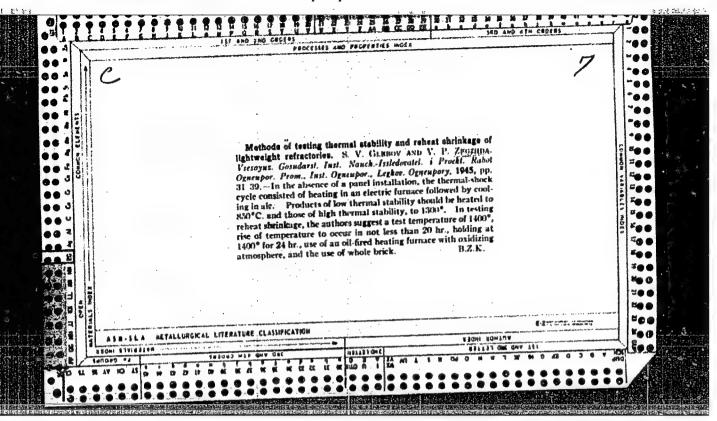


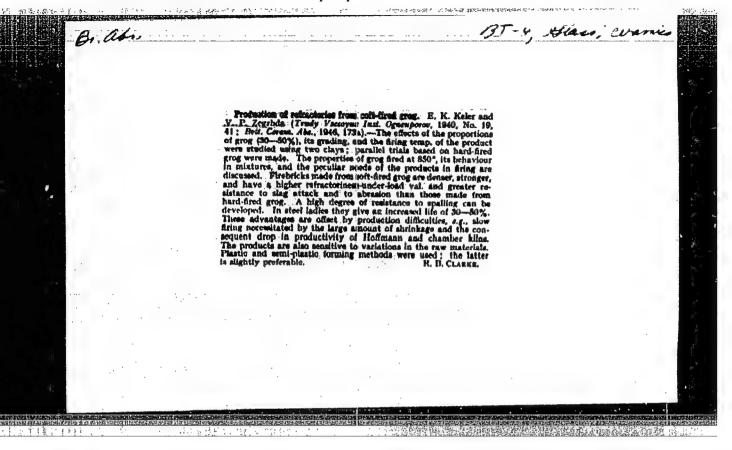


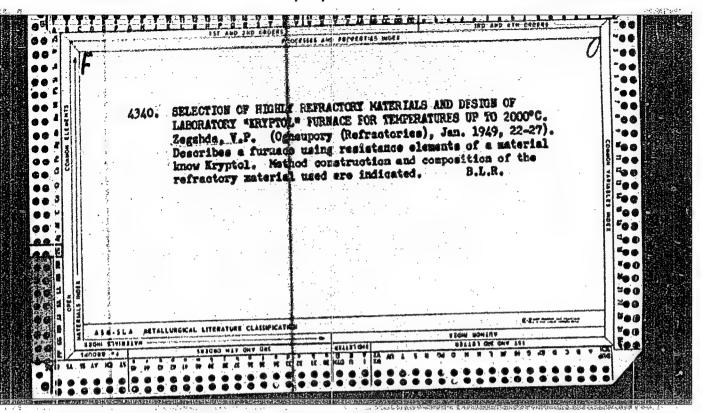


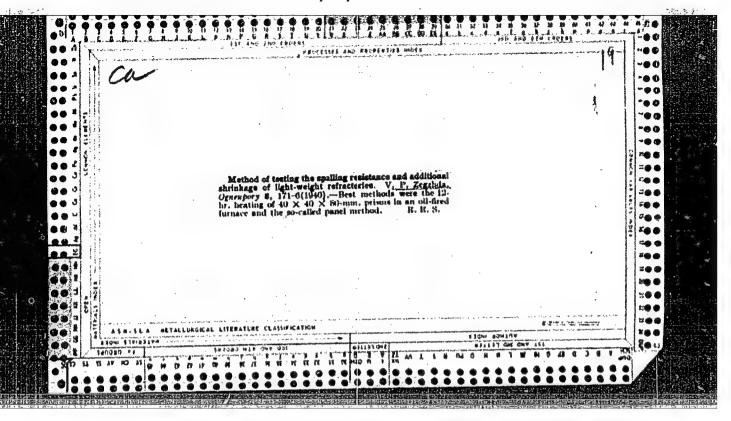






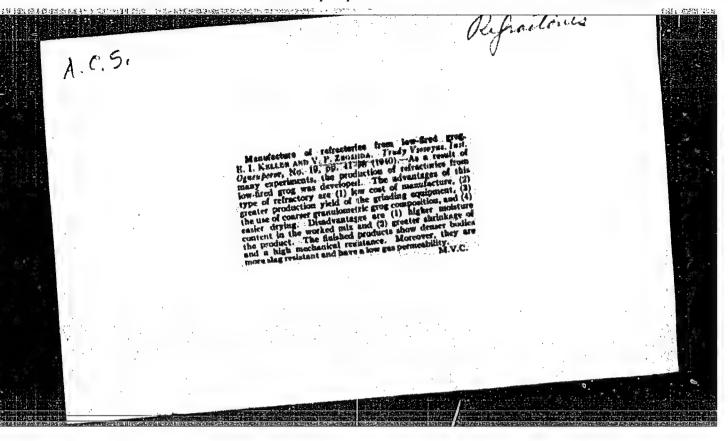






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MARANTS, A.G.; ZEGZHD/, V.P.; TIKHONOVA, L.A.; SOKOLOV, V.I.; RYENIKOV, V.A. [deceased]; DEREVYANCHENKO, L.D.; KARKLIT, A.K.; AKSEL'RAD, E.A.; SARMIH, A.P.; FEL'DGANDLER, G.G., red.; MAKSIMOV, Ye.I., red. izd-va KARASEV, A.E., tekhm. red.

[Handbook of refractory materials, products, and raw materials; compiled according to state standards and technical specifications] Sprayochnik na ogneupornye izdeliia, materialy i syr'e. Sostaylen po gosudarstvennym standartam i tekhnicheskim usloviiam. Izd.2., ispr. i dop. Moskva, Gos. nauchmo-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 338 p. (MIRA 14:9)

1. Sotrudniki Vsesoyuznogo instituta ogneuporov (for all except Felidgandler, Maksimov, Karasev).

(Refrectory materials—Standards)

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23970 S/131/61/000/006/003/003 B105/B206

AUTHORS:

Gordeyev, N. P., Zegehda, V. P., Konarev, M. U., Shalkov, K. A., Konovalov, Ya. A.

TITLE:

Experience in the use of graphite containing refractory materials for pumping over liquid metals by the electromagnetic method

PERIODICAL:

Ogneupory, no. 6, 1961, 292

TEXT: This article deals with the problem of the transportation of liquid metals by means of electromagnetic pumps, for the solution of which high-quality refractory materials are necessary. The high thermal and slag stability, non-wettability by metals and other properties of graphite containing refractory materials led to the assumption that they are suitable for this purpose. The testing of graphite containing refractory materials in steel discharge shutes, made according to the method of the VIO, Vsesoyuznyy institut ogneuporov (All-Union Institute of Refractory Materials) jointly with the Borovichskiy kombinat ogneuporov (Borovichi Combine of Refractory Materials) showed positive results: the Card 1/2

23970 5/131/61/000/006/003/003 B105/B206

Experience in the use of graphite ...

graphite containing chamotte products were highly resistant against washing out by the stream of liquid metal, and warranted an increase of the stability of the discharge-shute lining by four to ten times. The All-Union Institute of Refractory Materials, jointly with the avtozavod im. Likhacheva (Automobile Plant imeni Likhachev) experimentally produced a graphite containing chamotte lining for an electromagnetic shute for pumping over liquid crude iron, as well as an electromagnetic measuring hopper in an iron foundry. After three tests of pumping over liquid crude iron, the 6 m long shute lining did not show any signs of washing out or destruction. The development of the induction method for pumping over liquid crude iron will necessitate the establishment of a special department for the manufacture of graphite containing refractory materials. There is 1 figure.

ASSOCIATION: Vsesoyuznyy institut ogneuporov (All-Union Institute of Refractory Materials) N. P. Gordeyev, V. P. Zegzhda; Borovichskiy kombinat ogneuporov (Borovichi Combine of Refractory Materials) M. U. Konarev, K. A. Shalkov, Ya. A. Konovalov

Card 2/2

PHASE I BOOK EXPLOITATION SOV/5865

Zegzhda, V. P., L. A. Tikhonova, V. I. Sokolov, A. G. Marants, V. A. Rybnikov [deceased], L. D. Derevyanchenko, A. K. Karklit, E. A. Aksel'rad, and A. P. Sarmin

Spravochnik na ogneupornyye izdeliya, materialy i syr' ye. Sostavlen po gosudarstvennym standartam i tekhnicheskim usloviyam (Handbook of Refractory Products, Materials and Raw Materials. Compiled According to State Standards and Technical Specifications) 2d ed. rev. and enl. Moscow, Metallurgizdat, 1961. 338 p. Errata slip inserted. 12,500 copies printed.

Supervisor: A. G. Marants; Ed.: G. G. Fel'dgandler; Ed. of Publishing House: Ye. I. Maksimov; Tech. Ed.: A. I. Karasev.

PURPOSE: This manual is intended for technical personnel working in ferrous and nonferrous industries and in other branches of industry and construction, for planners, designers, and personnel of technical supply administrations,

Card 1/8

Handbook of Refractory Products (Cont.)

SOV/5865

and for specialists in refractory manufacture and application.

COVERAGE: The manual deals with State standards and technical specifications for refractory ware, materials, and stock used in the construction and repair of furnaces used for smelting, heating, calcination, and distillation, and of fire chambers for boilers and dryers. The specifications also cover other thermal units used for processing under high thermal conditions, but do not include all refractory materials since approximately 10% of them have never been standardized. This edition has been enlarged by the inclusion of data on cast refractories and carbonaceous ware, as well as additional data on refractory stock, magnesite ware, forsterite ware, and metallurgical filler powders. The lists included in the manual contain State standards and specifications approved as late as Mar 1960. No personalities are mentioned. There are no references.

Card 2/8

UZA, G., dr.; BUTNARU, M., dr.; MANASIA, M., dr.; ZEHAN, M., chim.

Considerations on the use of the artificial kidney (based on 100 cases of hemodialysis). Med. intern. 14 no.9:1131-1140 S '62.

1. Lucrare efectuata in Clinica I medicala, Cluj (director: acad. A.Moga).
(KIDNEY, ARTIFICIAL) (ACUTE RENAL FAILURE) (NEPHRITIS)
(TUBERCULOSIS, RENAL) (BARBITURATE TOXICOLOGY) (PREGNANCY COMPLICATIONS)